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Chapter 2 Directory Structures

Project Directory Structure

Project related files, including CADD drawing files, survey and mapping data, and engineering data files, will be contained within a specific project directory structure. Files also contained within this directory structure include, correspondence, project documentation, reports, etc. Following the directory structure as indicated in this chapter will allow for consistent handling of all project files, as well as allow for easier archiving at project completion. The first level project directory is shown below, the following pages outline each first level directory in much greater detail, including subdirectories, purpose of each directory and types of files typically stored within each directory.

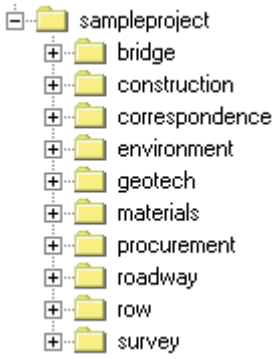

Figure 2-1: Project Directory

While not all directories will be needed for each project, the structure naming convention must be followed where applicable. Sub-directories addressed in this chapter include Roadway and ROW/Survey/Mapping.

Roadway

The sub-directories of the Roadway directory are detailed below.

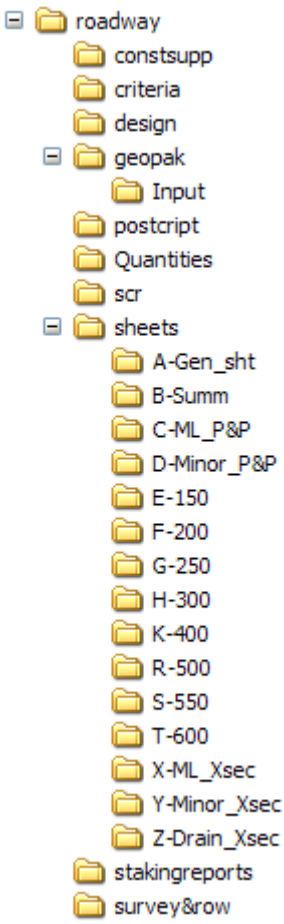

Figure 2-2: Roadway Directory

Each sub-directory contains specific files related to each project. The table below outlines the files to be contained within each sub-directory.

constsupp	PE memo, staking reports, etc.
criteria	Standard GEOPAK CFLHD criteria files. All criteria files used on project, when downloaded from CFLHD website, or at end of project should be stored here for project use and for archiving with project
design	Overall files other than mapping. Including; Alignment file, utility and drainage, traffic control, signing and striping, erosion control, GEOPAK superelevation shapes and patterns, and overall cross-sections including ref-hub cross sections. **This directory should be for overall base sheets only, no plan sheets.**
geopak	Project GPK file, GEOPAK input and output files
Input	For storing GEOPAK input files, if desired. Input files may be placed in the GEOPAK directory if preferred.

Postscript	Print files, used by contracts group
Quantities	Any GEOPAK quantity report, earthwork, spreadsheets, etc.
Scr	Special contract requirements
sheets	
A–Gen_sht	Title sheet, plan symbols and abbreviations, typical sections
B–Summ	Summary and tab sheets
C–ML_P&P	Mainline plan and profiles
D–Minor_P&P	Approach road plan and profile, site plans, intersection details
E, F, G, H, & K	Division 150-400, layouts, standards, details, and specials
R & S Structural	Division 500 and 550, Structural. Exact sheets and sheet names to be included will be determined by structural group. Samples may include; bridge layout, wall layout, box culvert layout
T	Division 600 layouts, standards, details, and specials
X–ML_Xsec	Mainline cross-section sheets
Y–Minor_Xsec	Minor road and Parking area cross-section sheets
Z–Drain_Xsec	Drainage cross-sections including ditches and culvert cross-sections
Stakingreports	Staking reports
Survey&row	.dat, .tin, and survey or mapping files

Table 2-1: Sub-directory Files

Survey/Mapping/ROW

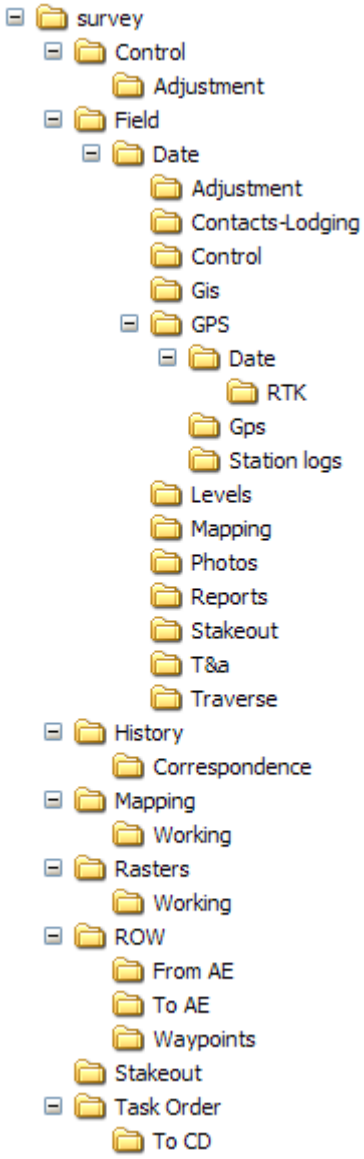

Figure 2-3: Survey/Mapping/ROW Directory

Control	Control sheets and overall drawings, to designers for final use and control reports **(.csv)**
Adjustment	Office adjustment, TGO (Trimble Geomatic Office)
Field	
Adjustment	Adjustment calculations, rarely done
Contacts-lodging	Field contacts and correspondence
Control	Final control from office

GIS	Drawing of points collected with resource grade GPS or Garmin
GPS	Data from survey grade receivers
Station Logs	
Julian Date	
RTK	Real Time Kinematics raw data files. **(.dc)**
Levels	Raw data from electronic levels, starnet adjustment files
Mapping	Preliminary mapping files **(.dgn, .gpk, .cor)**
Photos	Digital photos of project
Reports	Weekly report, final project report, mileage logs
Stakeout	Stakeout data from office, CL, ref hubs
T&A	Time and attendance information
Traverse	.dc files, raw data, terrestrial data
History	Transmittal letters, Index files
Correspondence	e-mails, general correspondence from field
Mapping	Final design files, final tin file **(.tin, .utl, .map, .con)**
Working	DTM files, **.dat** files, **.prj** files
Rasters	Final **.hmr, .tif** and **doqq** files.
Working	Working files to be merged to create final
Row	
From AE	
To AE	
Waypoints	
Stakeout	Trimble Geomatic Office files, design cross section files
Task order	Scopes, estimates, proposal, negotiation memo **(.doc, .xls, .pdf)**
To CD	Files burned to CD for consultant

Table 2-2:

CADD Support Directory Structure

The CADD support directory will contain the standard files detailed in the following chapters. Theses include seed files, font resource files, line style resource files, etc. This portion of the chapter is, in general, for information only. For CFLHD employees the individual CADD machines have been configured to look for these files first. Use of fonts, line styles, etc., should be seamless. For our consultants there are links in each chapter to the CADD support files on the CFLHD website. This section applies to users within CFLHD only. Consultants should use whatever CADD support directory structure is already in place. Directions for downloading and attaching the standard CADD support files are provided within each chapter.

The CFLHD standard CADD resource files include set up, configuration, and resource files for MicroStation and GEOPAK., including such things as MicroStation seed files and cell libraries, and GEOPAK database files and superelevation tables.

The standard CADD resource files are set up and maintained on one of the network file servers (wheels) by the CADD Coordinator. The resource files are "read-only", as are the directories they reside in, so users cannot make changes to these files or create additional alternate versions of them on the server. These resource files are the "official" versions that should be used throughout CFLHD. Any errors discovered in these files should be reported to the CADD Coordinator so that they can be fixed.

The standard CADD resource files are centrally located on the N: drive in subdirectories under the Standards directory and are accessed by all CFLHD users from there. The first level directories under the Standards directory are as shown below:

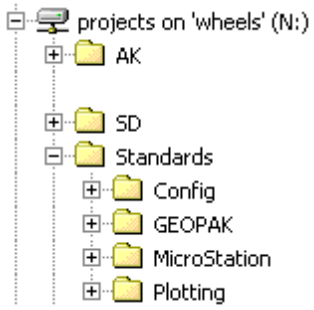

Figure 2-4: CADD Resource Files

Config	System-level set up files that control the behavior of MicroStation and GEOPAK. These files define things such as the directories that MicroStation and GEOPAK look in and/or store various resource files, the names of those resource files, and various settings that control how the programs operate.
GEOPAK	CFLHD standard GEOPAK set up and resource files for all the various combinations of units (Metric and English) and MicroStation versions (V7 and V8). These files include things such as the standard CFLHD D&C Manager .ddb files, Survey Manager .smd files, superelevation computation files, P&P sheet clipping set up files, and cross-section sheet layout dgn and input files. See the following pages of this chapter for a detailed description of the directory structure below the GEOPAK directory.
MicroStation	CFLHD standard MicroStation resource files for all the various combinations of units (English and Metric) and MicroStation versions (V7 and V8). These resource files include things such as the CLFHD standard seed files, cell libraries, font libraries, custom line styles, and MicroStation Basic macros. See the following pages of this chapter for a detailed description of the directory structure below the MicroStation directory.
Plotting	CFLHD standard set up and resource files for both MicroStation Print/Plot and Bentley InterPlot. These files include the Print/Plot plotter driver (.plt) and pen table (.tbl) files necessary to plot to the various plotters and to resymbolize the plots (e.g., shading, changing weights or colors, setting plotting order, adding date/time stamps, etc.) as desired. See the following pages of this chapter for a detailed description of the directory structure below the Plotting directory. (Note: InterPlot is not currently implemented in CFLHD, but will be in late 2003 or early 2004.)

Table 2-3: Sub-directory Files

GEOPAK Standard Resource Files Directory Structure

The GEOPAK directory has two child directories: one for V7 resource files and the second for V8 resource files. The directory structure for \Standards\GEOPAK\V7\ is shown below left; the directory structure for \Standards\GEOPAK\V8\ is shown below right. The resource files are all located in the lowest level subdirectories (e.g., ddb, labeler, pnp_sheet_layout\classic, etc.) within the directory tree. The names of these lowest level subdirectories, combined with their parent directory path, give a good indication of the functionality of the GEOPAK resource files that are located within the subdirectory. For example, the \GEOPAK\v7\English\ddb\ subdirectory contains the standard D&C

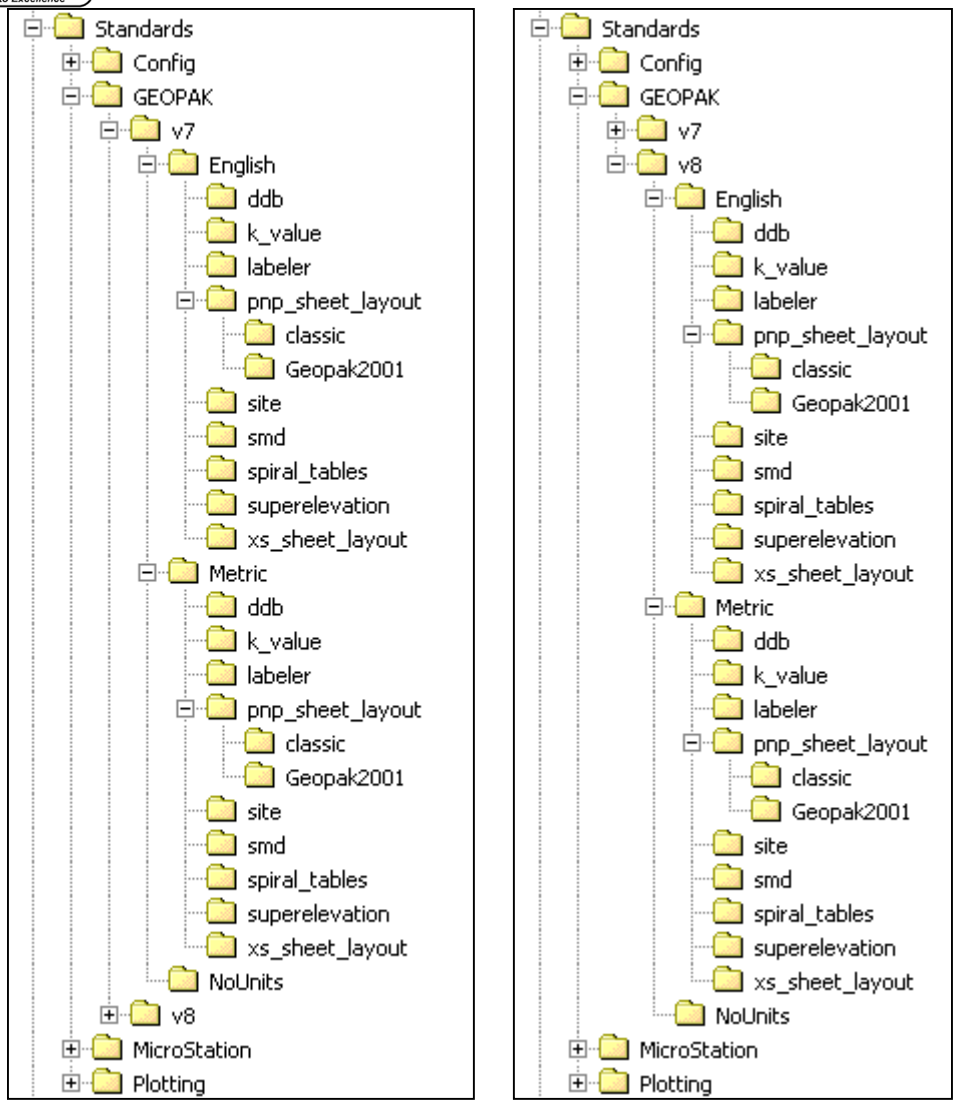

Figure 2-5: Manager database (.ddb) file for English units and version 7 MicroStation.

MicroStation Standard Resource Files Directory Structure

The MicroStation directory has two subdirectories: one for V7 resource files and the second for V8 resource files. The directory structure for \Standards\MicroStation\V7\ is shown below left; the directory structure for \Standards\MicroStation\V8\ is shown below right. The resource files are all located in the lowest level subdirectories (e.g., cell, line_styles, seed, etc.) within the directory tree. The names of these lowest level subdirectories, combined with their parent directory path, give a good indication of the functionality of the MicroStation resource files that are located within the subdirectory. For example, the \MicroStation\v7\English\cell\ subdirectory contains the standard cell libraries for MicroStation version 7 and English units.

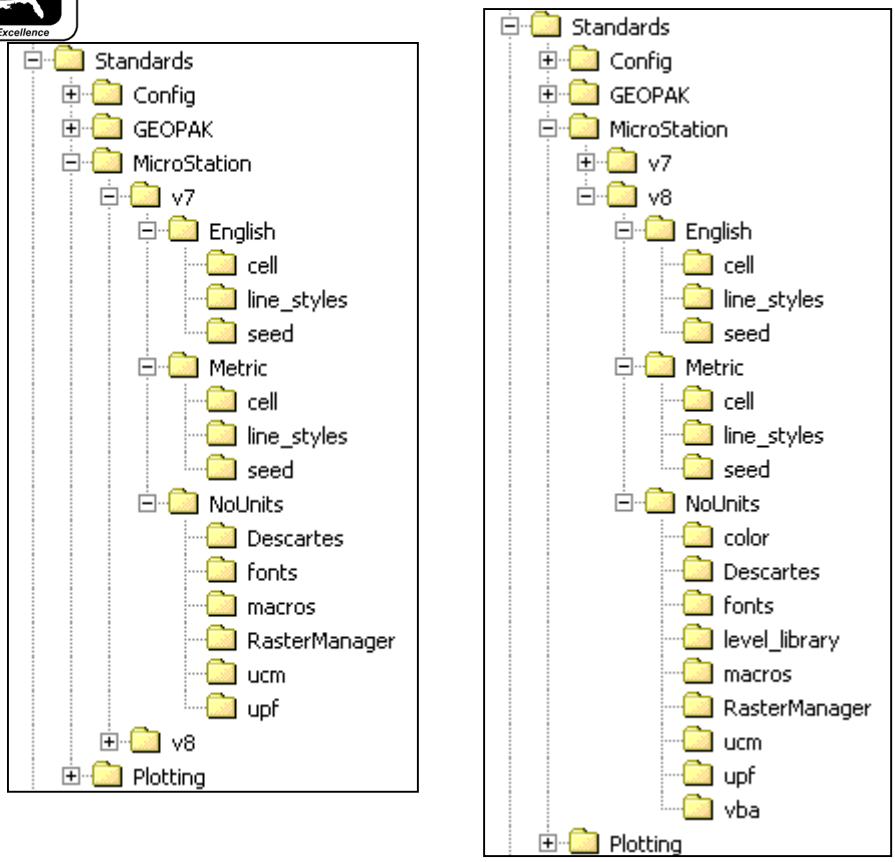

Figure 2.6: Resource File Directories

Plotting Standard Resource Files Directory Structure

The Plotting directory has two subdirectories: one for Bentley InterPlot resource files and the second for MicroStation Print/Plot resource files. The directory structure for \Standards\Plotting\is shown below.

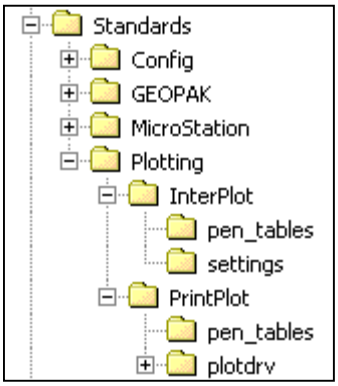

Figure 2-7: Plotting Directory